

CLAIMS:

1. A lenticular display assembly, comprising:
 an image panel having a composite image;
 a lenticular lens panel adapted to display a
5 lenticular image from a composite image;
 connection means provided to releasably
 connect the image panel to the lenticular lens panel in
 an aligned relationship; and
 compression means provided to press the image
10 panel and the lenticular lens panel against one another;
 whereby the lenticular image is displayed by
 the lenticular lens panel and the image panel being
 interconnected by the connection means and the
 compression means.
- 15 2. The lenticular display assembly according to
 claim 1, wherein the compression means cooperates with
 any one of the image panel, the lenticular lens panel
 and the connection means to curve the image panel and
 the lenticular lens panel connected to one another by
20 the connection means, such that the image panel and the
 lenticular lens panel are pressed against one another.
3. The lenticular display assembly according to
 claim 2, wherein the compression means has a backplate
 sandwiching the image panel between the backplate and
25 the lenticular lens panel, and a tension member
 interconnecting the connection means at opposed ends of
 the panels such that a curve is produced in the panels
 and in the backplate.
4. The lenticular display assembly according to
30 any one of claims 1 to 3, wherein the connection means
 are fasteners received in holes in the panels.

5. The lenticular display assembly according to any one of claims 1 to 4, further comprising a light source behind the image panel so as to illuminate the lenticular image.

5 6. The lenticular display assembly according to claim 3, wherein the tension member is at least one bar having connection holes at opposed ends thereof for being connected to the connection means, a distance between the connection holes being smaller than a
10 distance between the fasteners at opposed ends of the panels.

7. A method for displaying a lenticular image, comprising the steps of:

i) providing a lenticular lens panel and an
15 image panel;

ii) positioning the lenticular lens panel onto the image panel such that the lenticular lens panel is in a desired alignment relationship with respect to a composite image on the image panel; and

20 iii) pressing the panels such that the image panel is pressed against the lenticular lens panel;

whereby a lenticular image is displayed by the combination of the panels.

8. The method according to claim 7, wherein the
25 step iii) is effected by bending the panels such that the panels are curved together.

9. The method according to any one of claims 7 and 8, further comprising a step of iv) emitting light from behind a rear surface of the image panel, so as to
30 illuminate the lenticular image.

AMENDED CLAIMS

received by the International Bureau on 03 May 2005 (03.05.2005): original claims 1-13 have been replaced by amended claims 1-13 (3 pages).

CLAIMS:

1. A lenticular display assembly, comprising:
an image panel having a composite image and
connection holes;
5 a lenticular lens panel adapted to display a
lenticular image from a composite image and having
connection holes;
connection means provided to releasably connect
the image panel to the lenticular lens panel by cooperating
10 with the connection holes of the image panel and the
lenticular lens panel such that the image panel and the
lenticular lens panel are in an aligned relationship; and
compression means provided to press the image
panel and the lenticular lens panel against one another;
15 whereby the lenticular image is displayed by the
lenticular lens panel and the image panel being
interconnected by the connection means and the compression
means.
2. The lenticular display assembly according to
20 claim 1, wherein the compression means cooperates with any
one of the image panel, the lenticular lens panel and the
connection means to curve the image panel and the lenticular
lens panel connected to one another by the connection means,
such that the image panel and the lenticular lens panel are
25 pressed against one another.
3. The lenticular display assembly according to
claim 2, wherein the compression means has a backplate
sandwiching the image panel between the backplate and the
lenticular lens panel, and a tension member interconnecting
30 the connection means at opposed ends of the panels such that
a curve is produced in the panels and in the backplate.

4. The lenticular display assembly according to any one of claims 1 to 3, wherein the connection means are fasteners received in holes in the panels.

5. The lenticular display assembly according to any one of claims 1 to 4, further comprising a light source behind the image panel so as to illuminate the lenticular image.

6. The lenticular display assembly according to claim 3, wherein the tension member is at least one bar having connection holes at opposed ends thereof for being connected to the connection means, a distance between the connection holes being smaller than a distance between the fasteners at opposed ends of the panels.

7. A method for displaying a lenticular image, comprising the steps of:

- i) providing a lenticular lens panel and an image panel;
- ii) positioning the lenticular lens panel onto the image panel such that the lenticular lens panel is in a desired alignment relationship with respect to a composite image on the image panel; and
- iii) pressing the panels such that the image panel is pressed against the lenticular lens panel;

whereby a lenticular image is displayed by the combination of the panels.

8. The method according to claim 7, wherein the step iii) is effected by bending the panels such that the panels are curved together.

9. The method according to any one of claims 7 and 8, further comprising a step of iv) emitting light from behind

a rear surface of the image panel, so as to illuminate the lenticular image.

10. The method according to claim 7, further comprising steps of iv) releasing the pressure between the panels and removing the image panel from the lenticular lens panel, and repeating the steps i), ii) and iii) with another one of the image panels.

11. The method according to claim 7, wherein the step ii) is achieved by passing fasteners through prealigned connection holes in the panels.

12. A method for aligning an image panel with a lenticular lens panel, comprising the steps of:

i) positioning at least one image panel on a support surface;

15 ii) positioning a reference lens panel on the at least one image panel, the reference lens panel having a known alignment with respect to the lenticular lens panel;

20 iii) adjusting a position and orientation of the reference lens panel with the at least one image panel such that the reference lens panel is aligned with the at least one image panel to display a desired lenticular image; and

iv) creating connection holes in the at least one image panel;

25 whereby the image panel is aligned for the lenticular lens panel as a function of said known alignment, for a subsequent interconnection of the image panel with the lenticular lens panel using the connection holes.

13. The method according to claim 10, wherein the steps i) to iv) are performed with a plurality of the at least one image panel stacked onto one another.

10. The method according to claim 7, further comprising steps of iv) releasing the pressure between the panels and removing the image panel from the lenticular lens panel, and repeating the steps i), ii) and iii) with another one of the image panels.

11. The method according to claim 7, wherein the step ii) is achieved by passing fasteners through prealigned connection holes in the panels.

12. A method for aligning an image panel with a lenticular lens panel, comprising the steps of:

i) positioning at least one image panel on a support surface;

ii) positioning a reference lens panel on the at least one image panel, the reference lens panel having a known alignment with respect to the lenticular lens panel;

iii) adjusting a position and orientation of the reference lens panel with the at least one image panel such that the reference lens panel is aligned with the at least one image panel to display a desired lenticular image; and

iv) creating connection holes in the at least one image panel;

whereby the image panel is aligned for the lenticular lens panel as a function of said known alignment, for a subsequent interconnection of the image panel with the lenticular lens panel using the connection holes.

13. The method according to claim 10, wherein the steps i) to iv) are performed with a plurality of the at least one image panel stacked onto one another.